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- 1869 The Use of Laser Scanning Cytometry to Assess Depth of Penetration of Adenovirus p53 Gene Therapy in Human Xenograft Biopsies
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- 1879 Malignant Transformation of Neurofibromas in Neurofibromatosis 1 Is Associated with CDKN2A/p16 Inactivation
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- 1885 Expression of p27^{KIP} and Other Cell Cycle Regulators in Malignant Peripheral Nerve Sheath Tumors and Neurofibromas: The Emerging Role of p27^{KIP} in Malignant Transformation of Neurofibromas
Helen P. Kourea, Carlos Cordon-Cardo, Maria Dudas, Denis Leung, and James M. Woodruff
- 1893 Pituitary Adenylate Cyclase-Activating Polypeptide Inhibits Transforming Growth Factor- β 1-Induced Apoptosis in a Human Pituitary Adenoma Cell Line
Hidehiro Oka, Long Jin, Elzbieta Kulig, Bernd W. Scheitbauer, and Ricardo V. Lloyd
- 1901 Familial Encephalopathy with Neuroserpin Inclusion Bodies
Richard L. Davis, Peter D. Holohan, Antony E. Shrimpton, Arthur H. Tatum, John Daucher, George H. Collins, Robert Todd, Charles Bradshaw, Paul Kent, David Feiglin, Arthur Rosenbaum, Mark S. Yerby, Cheng-Mei Shaw, Felicitas Lachawan, and Daniel A. Lawrence
- 1915 Blood-Brain Barrier Tight Junction Disruption in Human Immunodeficiency Virus-1 Encephalitis
Linda M. Dallasta, Liubomir A. Pisarov, James E. Espen, Jonette V. Werley, Ashlee V. Moses, Jay A. Nelson, and Cristian L. Achim
- 1929 Interleukin-10 (IL-10) Augments Allograft Arterial Disease: Paradoxical Effects of IL-10 in Vivo
Yutaka Furukawa, Gerold Becker, Jennifer L. Stinn, Koichi Shimizu, Peter Libby, and Richard N. Mitchell

- 1941 Altered Centrosome Structure Is Associated with Abnormal Mitoses in Human Breast Tumors
Wilma L. Lingle and Jeffrey L. Salisbury
- 1953 Human Vascular Adhesion Protein-1 in Smooth Muscle Cells
Kimmo Jaakkola, Katja Kaunismäki, Sami Tobka, Gennady Yegutkin, Esko Vääntinen, Tapani Havia, Lauri J. Pelliniemi, Martti Virolainen, Sirpa Jalkanen, and Marko Salmi
- 1967 Expression of Angiogenesis Stimulators and Inhibitors in Human Thyroid Tumors and Correlation with Clinical Pathological Features
Giuseppe Bunone, Paolo Vigneri, Luigi Mariani, Simona Butó, Paola Collini, Silvana Pilotti, Marco A. Pierotti, and Italia Bongarzoni
- 1977 Basic Fibroblast Growth Factor Synthesis by Human Peritoneal Mesothelial Cells: Induction by Interleukin-1
Marcus Victor Cronauer, Sylwia Stadlmann, Helmut Klocker, Burghard Abendstein, Iris Elisabeth Eder, Hermann Rogatsch, Alain Gustave Zeimet, Christian Marth, and Felix Albert Offner
- 1985 Proliferative Inflammatory Atrophy of the Prostate: Implications for Prostatic Carcinogenesis
Angelo M. De Marzo, Valerie L. Marchi, Jonathan I. Epstein, and William G. Nelson
- 1993 A Short Isoform of Col9a1 Supports Alveolar Bone Repair
Kang Ting, Hema Ramachandran, Kun Sung Chung, Neda Shah-Hosseini, Bjorn R. Olsen, and Ichiro Nishimura
- 2001 Eotaxin Expression in Sephadex-Induced Lung Injury in Rats
Ren-Feng Guo, Peter A. Ward, Jacqueline A. Jordan, Markus Huber-Lang, Roscoe L. Warner, and Michael M. Shi
- 2009 Somatic Mutations of the L12a Gene in V- κ , Light Chain Deposition Disease: Potential Effects on Aberrant Protein Conformation and Deposition
Ruben Vidal, Fernando Goñi, Fred Stevens, Pierre Aucouturier, Asok Kumar, Blas Frangione, Jorge Gibso, and Gloria Gallo
- 2019 Expression of Costimulatory Molecules in Low-Grade Mucosa-Associated Lymphoid Tissue-Type Lymphomas *in Vivo*
Constanze Knörr, Christa Amrehn, Harald Seeberger, Andreas Rosenwald, Stephan Stilgenbauer, German Ott, Hans-Konrad Müller Hermelink, and Axel Greiner
- 2029 Frequent Expression of the Variant CD30 in Human Malignant Myeloid and Lymphoid Neoplasms
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- 2043 Heterogeneity of Endothelial Cells: The Specialized Phenotype of Human High Endothelial Venules Characterized by Suppression Subtractive Hybridization
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- 2057 Psoriasin (S100A7) Expression and Invasive Breast Cancer
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- 2067 Gastrin-Releasing Peptide Receptors in Non-Neoplastic and Neoplastic Human Breast
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- 2077 Primary Central Nervous System Lymphomas Are Derived from Germinal-Center B Cells and Show a Preferential Usage of the V4-34 Gene Segment
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- 2087 The Deletion of Transforming Growth Factor- β -Induced Myofibroblasts Depends on Growth Conditions and Actin Organization
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- 2101 Pathogenesis of Dilated Cardiomyopathy: Molecular, Structural, and Population Analyses in Tropomodulin-Overexpressing Transgenic Mice
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